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An Analysis of External Finance Availability on SMEs' Decision Making: A Case Study of the Emerging Market of Poland

By

Izabella Steinerowska-Streb

Artur Steiner

This article explores an understanding of the entrepreneurial behavior of small and medium enterprises (SMEs) in Poland, one of the emerging markets of the European Union, during the recent period of economic slowdown. It considers the role of accessibility to external financial resources in shaping decisions undertaken by such enterprises. The hypothesis is that, in a period of economic slowdown, SMEs that have difficulty in accessing external sources of financing adopt different strategies than those that have free access to those resources. The findings indicate that access to the external sources of financing is a statistically significant factor determining decisions of SMEs

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in relation to employment reduction, price reductions on goods/services, suspension of previously planned investments, and an increase in the level of salaries. Consequently, the study is important as it considers factors that impact the success and survival of SMEs in the emerging market; it is also unique, as it investigates these aspects in the recent period of the global economic downturn. © 2014 Wiley Periodicals, Inc.

Introduction

Since the beginning of the transformation of the Polish economy, barriers to accessing financial capital have been indicated by Polish small and medium enterprises (SMEs) as the major obstacles to their development (Gęsicka, 1997). During the first years of transformation, government policies did not support SMEs and there were no institutions encouraging business development. Consequently, in this period, Polish SME access to financial capital was particularly limited. Moreover, after almost ten years of transformation, the financial barrier was still significant for Polish SMEs. In 1998, only 4% of microenterprises that used external sources of financial support satisfied their needs for credits or loans. Among small enterprises, this rate was 20%, and in the group of medium-sized enterprises 27% (Dzierżanowski, 1999).

More recently, after 2004, when Poland joined the European Union (EU), access to external sources of finance for Polish SMEs improved in a similar way to other new EU countries. For instance, in 2005, almost one third of Polish SME entrepreneurs reported that as a result of the accession of Poland to the European Union, availability of external sources of financing for SMEs increased (Tokaj-Krzewska & Pyciński, 2006). Further improvements in SMEs' ability to access financial capital were noted in 2007 when 81.4% of Polish SMEs had a chance to gain or extend their long-term loan. The remaining 18.6% of SMEs did not have, in their view, the possibility to get long-term loans. The main difficulties in accessing long-term finance were caused by the lack of guarantees, complexities of banking procedures, and the unwillingness of banks to grant loans to SMEs (Starczewska-Krzysztozek, 2007). Similar findings emerged from a survey undertaken in 2005 among the new EU member states including Poland, Estonia, Cyprus, Latvia, Lithuania, Malta, Slovenia, Slovakia, Czech Republic, and Hungary. The study indicated that the majority (70%) of SMEs from these countries met their financial management needs. However, the survey also revealed large differences across the countries. For

instance, the financial situation of SMEs was least favorable in Slovakia, where less than half of the managers reported that the level of finances was sufficient. SMEs in Hungary, however, were the most satisfied with their level of finances: almost nine out of ten managers in this country claimed that their financial situation was adequate (European Commission, 2006).

In Poland, easier access to capital influenced ways of financing SME investments. For instance, a range of financial services offered in the Polish market expanded, new institutions facilitating access of SMEs to external financial capital were established, the government started supporting SMEs, and, finally, Polish enterprises became entitled to receive aid for SMEs from the European Union (Starczewska-Krzysztozek, 2008). As a consequence, banks changed their approach to granting loans to SMEs, and currently banks in Poland no longer disregard this group of businesses as potential clients. Despite this, according to Polish Agency of Entrepreneurial Development, in 2007 the majority (77%) of new investments of Polish SMEs were financed from their own resources. Smaller enterprises rarely used external sources of financing (such as loans or public resources), gaining resources most frequently from friends and family. Larger enterprises more often financed their activities through loans, gaining public grants/support or using high-risk funds such as venture capital/business angels (Żoźniński & Zadura-Lichota, 2008).

In Poland, easier access to capital influenced ways of financing SME investments.

1 After the financial crisis that began in the United
2 States in 2007, Polish SMEs' access to finance got worse.
3 In December 2008, over 70% of SMEs indicated a lack
4 of financial aid resources or difficulties in accessing
5 bank loans as being a barrier to developing their busi-
6 ness activities (Favore, 2008). Access to finance became
7 particularly problematic for female entrepreneurs and
8 those who had previously been unemployed (Brussa &
9 Tarnawa, 2011).

11 However, it should be noticed that since the begin-
12 ning of financial crisis, access to finance got worse not
13 only in Poland but also in other countries, both in emerg-
14 ing and developed markets. For instance, in 2009 the
15 worldwide volume of deposits and loans shrank, with a
16 median decrease of 12% in the ratio of deposit value to
17 gross domestic product (GDP) and a median decrease
18 of 15% in the ratio of value of loans to GDP (World
19 Bank, 2010). As a consequence, SMEs from both emerg-
20 ing and developed markets started to perceive limited
21 access to capital as a bigger obstacle to the development
22 than previously. Economic downturn negatively affected
23 businesses' competitiveness all over the world. As such,
24 although international growth has become a matter of
25 high importance even for SMEs (Rowden, 2001; Zain
26 & Ng, 2006), the Global Enterprise Survey Report 2010
27 revealed that access to finance became a main barrier to
28 internationalization and export for 23% of Asia-Pacific
29 SMEs, 28% of Gulf SMEs, 16% of UK globally engaged
30 SMEs, 30% of SMEs from other EU countries, and 19%
31 of SMEs from the United States (Institute of Chartered
32 Accountants in England and Wales [ICAEW], 2010; Ojala
33 & Tyrväinen, 2007).

35 It needs to be emphasized that although some of
36 the financial constraints met by SMEs can be reduced
37 by cooperation and/or being part of a business cluster
38 (Reid, DeMartino, & Zyglidopoulos, 2005), this limited
39 access to funding opportunities represents a significant
40 obstacle to the firm's growth (Beck & Demirgüç-Kunt,
41 2006; Beck, Demirgüç-Kunt, & Martinez-Peria, 2008;
42 Howorth, 2001; Ojala & Tyrväinen, 2007; Zain & Ng,
43 2006). Moreover, due to their higher dependence on
44 bank financing, the latter applies especially to SMEs
45 (European Central Bank, 2012). Consequently, in a
46 prolonged economic crisis, it is important to find out
47 what impact access to finance has on SME decisions and
48 activities. It is essential to better understand complexi-
49 ties of SMEs' decision making, as it can facilitate future
50 monetary policies that aim to address current economic
51 challenges.

54 The aim of this article is to develop our understand-
55 ing of and address knowledge gaps in relation to the

entrepreneurial behavior of Polish SMEs in a period of 56
an economic slowdown. The study compares SMEs that 57
had no access to external sources of financing and those 58
that did. The primary hypothesis is that in a period of 59
economic slowdown, activities undertaken by these two 60
groups of SMEs are significantly different. To verify the 61
hypothesis, primary data were used. 62

63 The article begins with a description of the role of
64 SMEs in emerging markets, followed by an explanation of
65 the importance of accessibility to finance and its impact
66 on decision making of the SMEs in the emerging market
67 of Poland. Research methods are then presented and
68 explained with the accompanying results. Finally, verifica-
69 tion of hypotheses and conclusions are described; these
70 present important issues characterizing entrepreneurial
71 behavior of SMEs that might influence their success and
72 even survival. Implications for policymakers, researchers,
73 and entrepreneurs are presented. 74

75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110

The importance of SMEs in emerging economies is two-
fold: an increasing number of SMEs and their positive
influence on developing national economies (Dobbs &
Hamilton, 2007; McIntyre, 2001; Organization for Eco-
nomic Cooperation and Development [OECD], 2006;
Stel, Carree, & Thurik, 2005). SMEs play an important
role in all contemporary market economies around the
world, and this is due to their contribution to national
GDPs and an ability to create employment (Andersson
& Tell, 2009; Audretsch, Carree, Stel, & Thurik, 2002;
Curran, 2000; Gebremariam, Gebremedhin, & Jack-
son, 2004; Halabi, Barrett, & Dyt, 2010; Hamilton &
Dana, 2003; Jamali, Zanhour, & Keshihian, 2009; Reid
& Harris, 2004; Smallbone & Wyer, 2000). SMEs have
a positive influence on economic growth. For instance,
they identify and satisfy market niches; produce essen-
tial goods and services; allocate resources in a sensible
way; and implement innovation, new techniques, and
technologies efficiently and, as such, are important for
regional development (Andersson & Tell, 2009; Berger
& Udell, 1998, 2006; Eyre & Smallman, 1998; Freel,
2000; Halabi et al., 2010; Jamali et al., 2009; Rosenbusch,
Brinckmann, & Bausch, 2011; Todorov, 2008).

SMEs use market shortages and economic oppor-
tunities, which are often more evident in emerging
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tionship with their clients, nonbureaucratized structures

SMEs use market shortages and economic opportunities, which are often more evident in emerging markets, and their activities are firmly grounded on the principles of rational management.

of management, unity of given commands, and simplified methods of decision making, these enterprises know the market and customers' needs well and, therefore, are able to quickly adapt (through being reactive and sometimes even proactive) to changing market conditions (Dobbs & Hamilton, 2007; Holmes & Gibson, 2001). For instance, SMEs easily adjust their production of goods and services in order to satisfy evolving market demands. Because of this, SMEs influence the development of competition and contribute to demonopolization of some sectors, while shaping the market and influencing occurring market processes (Steinerowska-Streb, 2011).

Activities of SMEs, similarly to other entities operating in a market, are determined by many factors both internal and external to the organization (Pansiri & Temtime, 2010). For instance, a national policy toward SMEs, the economic situation of the state, the level of a national GDP, investments, consumption, the level of unemployment, export and import, currency, and interest rates are among the factors that have an impact on SMEs (OECD, 2006). High economic growth, low interest rates, and high demand create greater opportunities for survival and development of enterprises. However, economic slowdown (defined as the phase of business cycle during which there is little or no growth or even decline of output; Sloman, 2006) does not favor, in general, development of enterprises. Economic downturn/slowdown, however, provides development opportunities for those entrepreneurs (and SMEs) who are able to find a gap on the market that will allow them to survive and grow.

Access to Financial Resources and Decision Making of the SMEs

Regardless of the stage of the economic cycle, all decisions made by SMEs depend on the available resources that the enterprises have. Access to external finance, in particular, constitutes a significant obstacle to SMEs' growth (Beck & Demirgüç-Kunt, 2006; Beck et al., 2008; World Bank, 2010). Interestingly, some 80 to 90% of all trade transactions are said to be financed externally; this would suggest that without "financial freedom" and the ability to access external sources of financing, businesses would be extremely limited in the activities they would be able to undertake (Chauffour & Farole, 2009).

Financial issues determine activities of SMEs throughout the different stages of their development. As such, if at the stage of commencing a business activity an enterprise does not have sufficient financial resources, it is more difficult for the enterprise to enter a selected market. Moreover, in these circumstances, gaining a competitive position and reaching a selected group of customers may take more time than for an enterprise with available financial capital. In the post-commencement stage of a company life cycle, during its growth and expansion, having access to sufficient financial resources determines further development of the enterprise. Thus, the limited financial capital of SME founders and limited access to external sources of financing are usually a major entrepreneurial challenge influencing the future of SMEs (Beck & Demirgüç-Kunt, 2006; Beck et al., 2008). Interestingly, it is more difficult for SMEs than for large enterprises to obtain external financial support. The main reason for this is that banks, as well as other financial institutions, require from newly established entities large guarantees that SMEs often cannot give. In addition, those SMEs that do pass credibility verification/credit check face high commission charges because they are perceived by the banks as high risk (Beck et al., 2008).

Access to adequate capital to grow and develop is problematic to many SMEs worldwide (European Commission, 2005, 2006; OECD, 2006). New businesses typically use founders' own resources and the additional financial support of informal investors. Based on research evidence from 29 countries, a major part of such additional resources comes from family members (40%), followed by friends and neighbors (29%), work colleagues (11%), other relatives (8%), strangers (8%), and from other informal sources (4%) (Bygrave, Hay, Ng, & Reynolds, 2003). Similar findings have also been presented in other studies (Harrison, Mason, & Girling, 2004; Maula, Autio, & Arenius, 2005; Szerb, Rappai, Makra, & Terjesen, 2007).

Although financial constraints determine activities of SMEs all over the world, there are some differences in how SMEs are financed across different economies (Beck et al., 2008). For instance, banks in developing countries are less exposed to SMEs than banks in developed countries.

In Poland, which is a developing country, SME access to external financial resources is limited. First, SMEs usually do not have sufficient knowledge regarding available financial options that could be harnessed. Second, complicated, formalized, and bureaucratic procedures discourage entrepreneurs of newly created SMEs to make use of external sources of financing. Due to difficulties in meeting all necessary business loan requirements, the majority of SME entrepreneurs use their own financial resources to set up an enterprise. Other SME owners who do not employ highly qualified staff that may help them to find the most advantageous sources of finance frequently use bank loans with high interest rates and try to reduce the amount they wish to borrow to a necessary minimum (Frasukiewicz, 2003).

Restricted access to external sources of financing and financial barriers that are experienced by SMEs influence not only their growth and development but also other operational aspects of their day-to-day activities. For instance, it could be that the enterprises are forced to keep permanent and strict financial discipline, analyze expenditures and costs regularly, and manage their resources efficiently and effectively. This means that actions undertaken by SMEs that have no access to external sources of financing and activities of SMEs that have free access to financial capital are different. The differences between these two groups of enterprises can be accentuated particularly in a period of economic slowdown. This issue is investigated in this study.

Methodology

The purpose of the study reported here was to identify patterns that occur in a period of economic slowdown in activities performed by SMEs in the emerging market of Poland.

Study Context

The study focused on Polish SMEs as it is the biggest emerging market and one of the biggest markets of the European Union. Poland presents an interesting environment in which free elections in 1989 and 1990 brought the Communist era to an end and a "shock therapy" program during the early 1990s. These events enabled Poland to transform its economy into one of the most robust in Central Europe (Central Intel-

ligence Agency [CIA], 2012). Since 2004, EU membership and access to EU structural funds have provided a major boost to the economy. With its transformation to a democratic, market-oriented country Poland has pursued a policy of economic liberalization and today is perceived as a success story among transition economies. For instance, despite economic slowdown in 2008–2009, Poland was the only country in the EU (including its new emerging markets) that avoided recession (Reichardt, 2011; see Table 1). In 2009, the GDP of Poland grew by 1.7%; compared to its European neighbors (the EU27) whose aggregate loss of GDP fell to 4.2% (Reichardt, 2011). It is claimed, however, that Poland's economic performance could improve over the longer term if the country addresses some of the remaining deficiencies in, for example, its business environment (CIA, 2012).

Study Hypotheses

This study compared two groups of Polish SMEs: those that did not have access to external sources of financing; and those that did not experience such constraints (this was determined by asking each respondent to classify themselves into one of the two groups). The primary hypothesis was that *in a period of decreased economic activity, actions undertaken by SMEs that have problems with accessing external sources of financing are significantly different from actions implemented*

This study compared two groups of Polish SMEs: those that did not have access to external sources of financing; and those that did not experience such constraints (this was determined by asking each respondent to classify themselves into one of the two groups).

TABLE 1 Five Supporting Hypotheses

Hypothesis No.	Hypothesis
1	In a period of decreased economic activity, SMEs that do not have access to external sources of financing, dismiss more employees compared to those SMEs that do not have problems with access to external sources of financing.
2	In a period of economic slowdown, SMEs that have free access to external sources of financing, prices of offered products are reduced less often than those of SMEs that do not have such access.
3	In a period of decreased economic activity, planned investments are limited more in SMEs that do not have access to external sources of financing than is observed in SMEs that have free access to external sources of financing.
4	In a period of economic slowdown, SMEs that have free access to external sources of financing increase salary levels more often than SMEs that do not have such access.
5	Cost analysis and cost modifications are executed more often in SMEs that do not have access to external sources of financing in a period of economic slowdown than those that do have it.

TABLE 2 GDP in EU27 and in Poland between 2005 and 2012

	2005	2006	2007	2008	2009	2010	2011	2012
EU27	2.1	3.3	3.2	0.3	-4.3	2.1	1.6	-0.3
Poland	3.6	6.2	6.8	5.1	1.6	3.9	4.5	1.9

Source: Eurostat (2013)

by SMEs that have free access to external sources of financing. In order to verify/reject the hypothesis and discover association between access to external sources of financing and its impact on SMEs' decision making, five supporting hypotheses were developed (Table 1). To verify these hypotheses, primary data collection was conducted.

Data Collection

The data used in this article were part of a larger study that surveyed and explored characteristics and behavior of Polish enterprises. The survey was conducted at the end of 2010; all data presented here relate to 2009—the year of the economic slowdown and the lowest level of GDP across Europe in recent years (see Table 2 and Appendix).

This research relates only to the group of SMEs operating in the Polish market. Enterprises employing up to 50 employees were classified as small enterprises (within this group a subgroup of microenterprises employing up to five people was identified) and those employing between 51 and 250 people as medium-sized. This classification of SMEs is based on the employment criteria suggested by the European Commission. The study, however, did not consider other criteria such as turnover, an annual balance sheet, and/or the type of relationship between an enterprise and another firm (European Commission, 2003).

A structured questionnaire was developed to gather information from a high number of respondents (Bryman & Bell, 2007). The questionnaire consisted of dichotomous

and fixed-alternative questions that ensured consistency and reliability of the selected research method (Saunders, Lewis, & Thornhill, 2009). The questions identified organizational changes, management methods, and other business practices relating to development obstacles, firms' investments, financing problems, cost management, aspects of firms' innovativeness, employment issues, and human resource management. The questions were based on previously developed and tested surveys conducted by the authors (see Steinerowska-Streb, 2005). In order to further increase the validity of responses, a number of additional questions verifying given answers were included (Bryman & Bell, 2007). The final version of the questionnaire was pretested in a pilot study. For the purpose of this paper, six questions were selected; these are presented in Table 3.

The data were collected using an online questionnaire survey. The questionnaire was available on a web-site, and access to it was granted to firms invited to the survey by e-mail. This method of conducting the study was selected for a number of reasons: (1) an online survey offered access to SMEs from all Polish regions, ensuring good geographical data coverage, and it enabled obtaining information from those who might not wish to be questioned face-to-face; (2) respondents (i.e., SME entrepreneurs) could complete the questionnaire at a convenient time, which was extremely useful considering the busy life and work commitments of the target group; (3) respondents could take as much time as they needed

TABLE 3 Selected Questions from the Research Questionnaire

No.	Questions
1	What kind of changes took place in the level of your firm's employment?
2	What kind of changes took place in the level of prices for the products offered by your firm?
3	Were there any changes in the level of planned investments made by your firm?
4	What kind of changes took place in the level of wages offered by your firm to your employees?
5	How often was the cost analysis conducted in your firm?
6	Did your firm have access to external sources of financing?

to fully understand and complete the survey, which promoted optimum quality of gathered data; (4) an e-mail survey often stimulates higher response levels than ordinary "snail mail" surveys; and, finally, (5) it is argued that participants of an online survey are willing to give more honest answers than to a person or on a paper questionnaire (Bryman & Bell, 2007; Saunders et al., 2009; Seale, 2004).

In order to identify Polish SMEs, researchers used a database of the Foreign Trade Promotion Group NETEX-STERLING, Edition 2010. The database consists of e-mail addresses of 290,000 Polish firms, and it is considered to provide a representative sample of Polish enterprises (i.e., according to research evidence, 96% of Polish enterprises that employ more than ten people have access to the Internet, and 65% of them have their own website [Eurostat, 2010]). Microenterprises' access to the Internet is also considered to be high and exceeds 90% (Juchniewicz & Grzybowska, 2010).

Only commercial SMEs that produced services and/or products were included in the analysis. A total of 202,000 SMEs were identified after all large firms and primary-sector industries (defined as agriculture, forestry, and fishing) were removed from the database. These were excluded for the purpose of this study due to specific characteristics and a limited ability to adapt to changes in the level of national economic activity. Questionnaires were e-mailed to the chief executive of all identified enterprises. In total, 1,238 firms responded, and 987 questionnaires were completed correctly and analyzed.

To identify activities undertaken by Polish SMEs in the period of economic slowdown, the respondents were asked to indicate changes introduced by them in 2009. In order to verify the hypotheses, the chi-squared (χ^2) test was adopted; this enabled identification of differences in the activities undertaken by SMEs with free access to the external sources of financing and those with no access to the external sources of financing. Differences were accepted as significant at $p < 0.05$ for all statistical analyses.

Findings

The data presented in this section come from different types of SMEs. As such, microenterprises comprised the majority of respondents (61.6%), 29.1% of respondents were small enterprises, and the remaining 9.3% were medium-sized enterprises; 37.8% of respondents specialized in service activity, 22.4% in commercial activity, and 23.5% in production activity. The remaining 16.3% of enterprises combined more than one activity. A total of 66.4% of studied enterprises had access to external sources of financing, and the other 33.6% did not have access to external financial resources. This characteristic corresponds with a wide diversity (and it helps to explore a broad spectrum) of SMEs on the Polish market.

Hypothesis 1: Employment Reduction

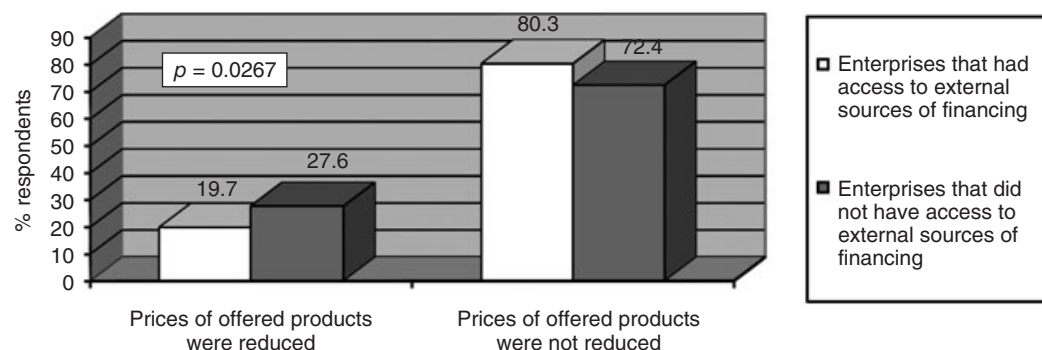
Respondents were asked about redundancies made in 2009. The findings show that in 80.1% of enterprises that had free access to external sources of financing, there was no reduction in the employment rate. However, among enterprises that did not have access to external sources of

The findings show that in 80.1% of enterprises that had free access to external sources of financing, there was no reduction in the employment rate.

FIGURE 1 Reduction in Employment in 2009 in SMEs According to Their Access to External Sources of Financing (%)



FIGURE 2 Reduction of Prices in 2009 in SMEs According to Their Access to External Sources of Financing (%)



financing the employment rate was lower, with only 68% dismissing employees, as shown in Figure 1.

Access to external sources of financing proved to be a statistically significant factor determining entrepreneurs' decisions in the area of employment reduction in the period of economic slowdown ($\chi^2 = 10.5$; $p = 0.0012$).

The findings suggest that SMEs that do not feel financial pressure are more likely to keep their human resources, which frequently are essential to continue, maintain, and/or grow business activities. However, SMEs that have problems with accessing financial resources are forced to reduce their costs, and they do that by reducing a number of their employees. The latter (although it presents a short-term solution) can have negative long-term consequences, especially if SMEs have to terminate experienced and skilled staff. Hence, lack of access to financial resources can reduce the level of other resources.

Hypothesis 2: Price Reductions on Goods Offered by an Enterprise

Respondents were also asked about changes in the area of service/product price delivery. The study reveals that

in 2009, prices were reduced in 19.7% of SMEs that had free access to external sources of financing and in 27.6% of other enterprises (Figure 2). Access to external sources of financing proved to be a statistically significant factor determining decisions relating to price reductions in the period of economic slowdown ($\chi^2 = 4.9$; $p = 0.0267$).

Our findings suggest that SMEs without access to external sources of financing try to attract more customers by offering cheaper products/services. If successful, this approach can lead to expanding a customer base, increasing financial turnover, and, finally, bringing higher profits. Alternatively, if customers do not respond to introduced changes, reducing prices can lead to declining profits and, in extremes, to business failure.

Hypothesis 3: Suspension of Previously Planned Investments

To verify Hypothesis 3, respondents were asked if in 2009 they had suspended any previously planned investments. The findings indicate that planned investments were

FIGURE 3 SMEs that Suspended Investments in 2009, According to Their Access to External Sources of Financing (%)

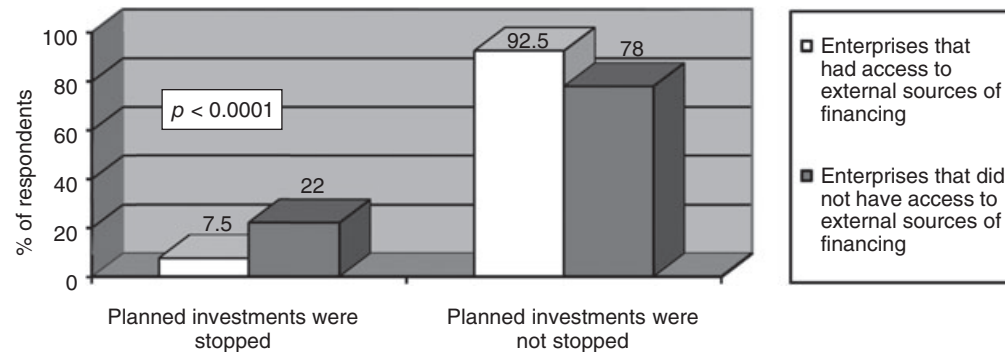
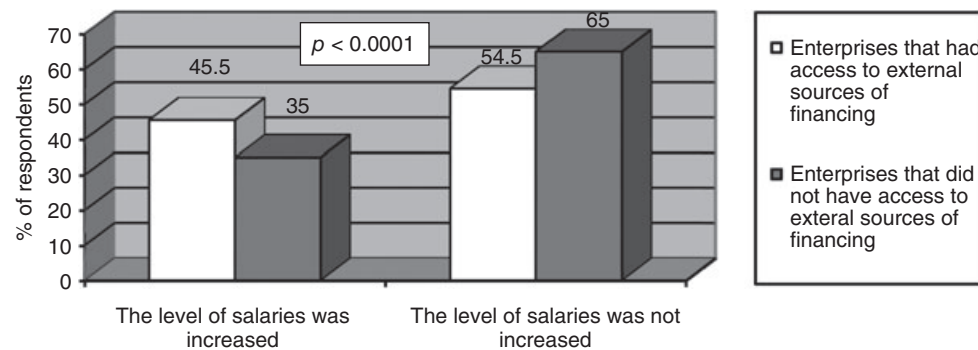


FIGURE 4 SMEs that Increased Salaries in 2009, According to Their Access to External Sources of Financing (%)



stopped in only 7.5% of enterprises that had access to external sources of financing and in 22% of companies that did not have access to them (Figure 3). Thus, access to external sources of financing proved to be a statistically significant factor influencing investments implemented in studied enterprises in the period of decreased business activity ($\chi^2 = 31.97$; $p < 0.0001$).

Presented data reveal that a level of investments is linked to ability to access financial resources. Lack of finance leads to potential investments being postponed or even canceled. Although it reduces current expenditures of a business, it stops SMEs from introducing (sometimes essential) changes, innovations, and improvements. These, in turn, can have an impact on their competitiveness and, in the long term, their survival.

Hypothesis 4: Increase in the Level of Salaries

Results concerning the increase in the level of salaries showed that in 2009, 45.5% of SMEs that had free access to external sources of financing increased the level of salaries. At the same time, only 35% of SMEs without external sources of financing reported the increase in

salaries (Figure 4). This means that access to external sources of financing proved to be a statistically significant factor influencing the increase in salaries in the period of decreased business activity ($\chi^2 = 11.9$; $p < 0.01$).

Our findings suggest that through accessing additional financial resources, SMEs are more likely to financially reward to their employees. SMEs want to retain their best staff, possibly by offering pay raises, and show them appreciation and encouragement to contribute to business development. SMEs that are unable to do that might lose their employees or decrease their willingness to perform well. The latter can have a negative impact on the overall performance of the business. Hence, being able to increase salary levels could be seen as important in the long-term sustainability of businesses.

Hypothesis 5: Execution of Cost Analysis and Cost Modifications

To verify Hypothesis 5, respondents were asked to state whether cost analysis in their SME was carried out frequently, rarely, or not conducted at all. The findings show that in both groups of SMEs, the percentage of

1 **TABLE 4** Management Practices Carried Out by Polish SMEs in 2009 in Relation to Their Access to External Sources
2 of Financing

Hypothesis No.	Enterprises with Access to External Sources of Financing	Enterprises without Access to External Sources of Financing	p Level	Correctness of Hypothesis
1: Reduction in employment	19.9%	32.0%	$p = 0.0012$	Verified
2: Reduction of prices	19.7%	27.6%	$p = 0.0267$	Verified
3: Investments	7.5%	22.0%	$p < 0.0001$	Verified
4: Enterprises that increased the level of salaries	45.5%	35.0%	$p < 0.01$	Verified
5: Cost analysis carried out frequently	28.6%	25.5%	$p = 0.44$	Rejected

16 enterprises that carried out cost analysis regularly is similar (see Table 4), and there was no statistically significant difference between the studied groups ($\chi^2 = 0.6$; $p = 0.44$). This suggests that the cost analysis and cost modifications are equally important to SMEs with and those without access to external sources of financing. It needs to be highlighted, however, that based on their cost analysis and cost modification, the two groups of businesses make significantly different decisions; this was presented by testing Hypotheses 1 through 4.

27 Table 4 summarizes findings of the study and indicates which of the five supporting hypothesis have been accepted and which rejected.

31 **Discussion**

34 The results show that in the period of economic slowdown, activities performed by Polish SMEs that did not have access to external financial resources and those that had free access to capital were significantly different in the areas of employment reduction (Hypothesis 1), price reductions on goods offered by an enterprise (Hypothesis 2), suspension of previously planned investments (Hypothesis 3), and, finally, increase in the level of salaries (Hypothesis 4).

43 The strongest statistically significant relationship occurred between the Polish SMEs' access to external sources of financing and realization of previously planned investments. The data suggest that in a period of economic slowdown, SMEs that do not have access to external sources of financing are more likely to reduce planned investments than SMEs that have free access to external financial resources, thus verifying Hypothesis 3. Due to additional financial resources, SMEs that had free access to external sources of financing did not have to abandon planned investments as frequently as other SMEs with no access to financial capital. Interestingly, risk associated with

unfavorable market situations discouraged SMEs from using their own financial resources. This left the enterprises with limited financial resources for investment and therefore had a negative impact on potential development.

It could be argued that enterprises with access to the external financial resources, due to their assumed better financial condition, were also more likely to increase salaries of their employees than those without access to financial resources. This was statistically proven, and the study verified Hypothesis 4, indicating that in the period of economic slowdown more SMEs that had free access to external sources of financing were more likely to increase the level of salaries in comparison to SMEs that did not have such access.

The findings indicate another statistically significant relationship between the ability to access external sources

Due to additional financial resources, SMEs that had free access to external sources of financing did not have to abandon planned investments as frequently as other SMEs with no access to financial capital.

1 of financing and a reduction of prices of products/
 2 services provided by SMEs. In the period of economic
 3 slowdown, SMEs that had free access to external sources
 4 of financing were less likely to reduce their prices than
 5 SMEs that did not have it. This relationship verifies
 6 Hypothesis 2. A possible interpretation of this is that
 7 SMEs that are economically weaker/have no access to
 8 additional financial resources are forced to maintain
 9 their liquidity. To do that, they reduce prices in order
 10 to sell/deliver more than competitors despite surplus of
 11 supply over demand that occurs in the market character-
 12 ized by the economic slowdown.

14 Further, access to external sources of financing
 15 proved also to be a statistically significant factor determin-
 16 ing decisions of enterprises in the area of employment
 17 reduction in the period of economic slowdown. In SMEs
 18 that did not have access to external sources of financing,
 19 in the period of economic slowdown, more employees
 20 were likely to lose their jobs than in SMEs that did not
 21 have problems with access to external sources of financ-
 22 ing. This relationship accepts Hypothesis 1 as true. Maybe
 23 not surprisingly, in a period of economic slowdown, when
 24 turnover of companies decreases, those who manage
 25 companies, while looking for ways to maintain profits at
 26 the highest possible level, make attempts to reduce costs.
 27 Labor costs have been considered for a long time as the
 28 most important financial barrier to the development of
 29 SMEs in Poland and make up a large part of overall costs.
 30 Therefore, while reducing the number of employees,
 31 entrepreneurs significantly lower the overall running
 32 costs associated with their ventures. As such, enterprises
 33 that are in a more difficult economic condition dismiss
 34 employees more often than companies that are finan-
 35 cially secure.

38 The study did not reveal a statistically significant dif-
 39 ference between two analyzed groups of SMEs and their
 40 attitudes toward cost analysis: SMEs that had free access
 41 to external sources of financing and those without such
 42 access showed a similar pattern of regular cost analyses.
 43 Thus, Hypothesis 5 is rejected.

44 Despite the fact that Hypothesis 5 was not accepted,
 45 the overall null hypothesis suggesting that in the period
 46 of economic slowdown, activities undertaken by SMEs
 47 that have problems with access to external sources of
 48 financing are different from activities performed by
 49 enterprises that have free access to external financial
 50 resources is true. Therefore, it can be concluded that in
 51 emerging economies, such as Poland, access to external
 52 sources of financing can be considered a determinant
 53 of actions undertaken by SMEs in a period of decreased
 54 economic activity.

Conclusions

Due to the current economic climate, businesses (and in particular SMEs) face a number of challenges, including decreases in demand, increases in late payments, and reduced access to affordable finance. Currently, lack of access to finance is often the main obstacle to growth. Insufficient supply of lending remains a critical issue mainly because it limits firms' abilities to invest and grow (i.e., two essential elements influencing economic recovery). Therefore, access to finance is often used as a motive and rationale for more government intervention (e.g., see Wymenga, Spanikova, Derbyshire, & Barker, 2012), and it is a subject of increasing research interest. Despite this, an understanding of the relationship between SMEs' access to external sources of financing and activities undertaken by those SMEs in the emerging markets during the period of economic slowdown is limited. This research helps to fill this knowledge gap. Also, this study is timely in that the economic slowdown affects entrepreneurship in many countries, including those with emerging and developed economies.

The study has shown that there is a clear relationship between the ability to access financial resources and strategic decisions of SMEs. Consequently, this study raises interesting issues for policymakers, researchers, and entrepreneurs. First, in emerging markets, policymakers have to understand that their decisions relating to accessibility of SMEs to financial resources have a direct impact on activities undertaken by, and the development of, the enterprises. Those factors have to be better understood in order to further enhance and strengthen emerging economies. Moreover, and as highlighted in the introduction, access to sufficient capital is essential in fostering entrepreneurship, competition, innovation, and growth—all needed in order to address challenges of the world economic crisis. The study showed, for example, that lack of accessibility to financial resources can lead to a reduction in the employment level and decreased SME investments in innovations and business improvements; these factors can have an impact on a prolonged economic crisis.

Second, for SME entrepreneurs, the study presents the assessment of the financing needs of SMEs in the emerging market of Poland, particularly during the time of economic slowdown. In addition, the study indicates potential consequences of accessibility (or otherwise) to financial resources on their decision making. These practical findings can influence future policies relating to finance accessibility and, thereafter, activities of SMEs.

Finally, for researchers interested in entrepreneurship and business, this study identifies important patterns

relating to activities undertaken by SMEs during the period of economic slowdown. The study showed that access to external financial resources (or lack of it) has a significant impact on decisions undertaken by SME entrepreneurs. Therefore, as an important theme, this topic should be a subject of further empirical testing. A comparative study in other emerging and developed markets during times of both economic slowdown and high economic growth would help to verify and build better understanding of the results described in this study. Further exploration of trends and patterns relating to the

behavior of SMEs and their ability to access finance would provide important information that could help in underpinning the evidence base for future policy that aims to achieve economic growth and supports innovation.

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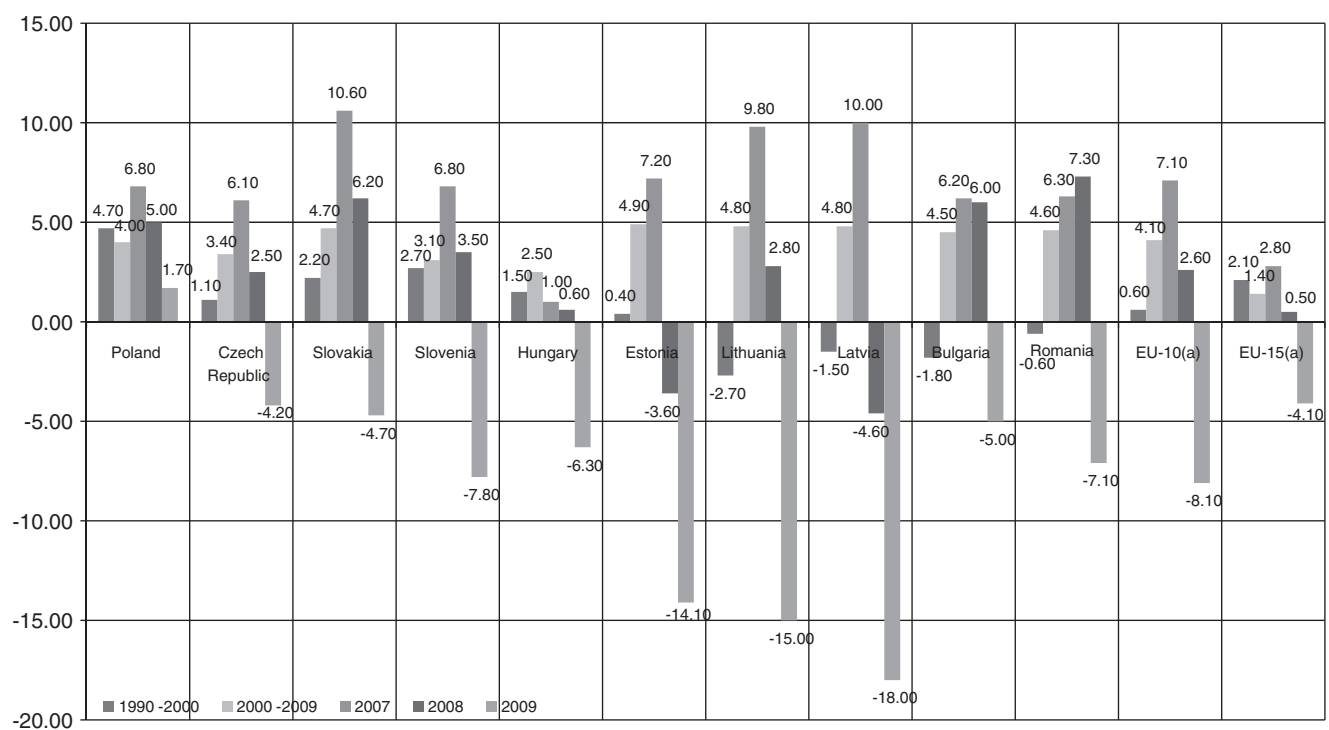
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9 APPENDIX: Growth in GDP between the Years 1990 and 2009 in 10 Emerging Markets of the EU Members



(a) - Arithmetic mean.

Source: Matkowski (2010)